



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent Application of

Ming Bo Wang et al.

Application No.: 10/780,638

Filing Date: February 19, 2004

Title: EFFICIENT GENE SILENCING IN
PLANTS USING SHORT DSRNA
SEQUENCES

) Group Art Unit: 1638

) Examiner: Russell Kallis

) Confirmation No.: 2125

**SECOND INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is a Second Information Disclosure Statement (IDS) and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of 180 as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of 180 as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge _____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of _____ is enclosed for the fee due.
- ☐ Charge _____ to credit card for the fee due. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BUCHANAN INGERSOLL AND ROONEY PC

Date November 7, 2006

By: 
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Ming Bo Wang et al.)	Group Art Unit: 1638
Application No.: 10/780,638)	Examiner: Russell Kallis
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For: EFFICIENT GENE SILENCING IN)	
PLANTS USING SHORT DSRNA)	
SEQUENCES)	

SECOND INFORMATION DISCLOSURE STATEMENT

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P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

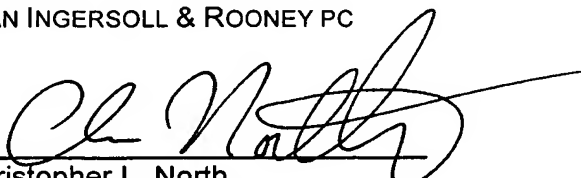
To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: November 7, 2006

By:


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SECOND
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Application Number 10/780,638
Filing Date February 19, 2004
First Named Inventor Ming Bo Wang et al.
Examiner Name Russell Kallis
Attorney Docket No. 1021565-000156

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	WAIBEL et al., "U6 snRNA genes of <i>Arabidopsis</i> are transcribed by RNA polymerase III but contain the same two upstream promoter elements as RNA polymerase II-transcribed U-snRNA genes," <u>Nucleic Acids Research</u> , 1990, vol. 18, no. 12, pp. 3451-3458, Oxford University Press, London, England.
	WAIBEL et al., "RNA-polymerase specificity of transcription of <i>Arabidopsis</i> U snRNA genes determined by promoter element spacing", <u>Nature</u> , 1990, vol. 346, pp. 199-202, Nature Publishing Group, London, England.
	"A. thaliana gene At7SL-1 for 7SL RNA," NCBI Entrez Accession No. X72228, 19-JUN-1995 (downloaded from www.ncbi.nih.gov on 3/02/2003).
	"A. thaliana gene At7SL-2 for 7SL RNA," NCBI Entrez Accession No. X72229, 19-JUN-1995 (downloaded from www.ncbi.nih.gov on 3/02/2003).
	"Arabidopsis thaliana 7SL-3 gene for signal recognition particle," NCBI Entrez Accession No. AJ290403, 26-APR-2001 (downloaded from www.ncbi.nih.gov on 11/10/2006).
	"Humulus lupulus H17SL-1 gene for signal recognition particle," NCBI Entrez Accession No. AJ236706, 28-JAN-2000 (downloaded from www.ncbi.nih.gov on 11/10/2006).
	"Humulus lupulus H17SL-2 gene and 7 SL RNA pseudogene," NCBI Entrez Accession No. AJ236704, 28-JAN-2000 (downloaded from www.ncbi.nih.gov on 11/10/2006).
	"Humulus lupulus H17SL-3 gene for signal recognition particle," NCBI Entrez Accession No. AJ236705, 28-JAN-2000 (downloaded from www.ncbi.nih.gov on 11/10/2006).
	"Humulus lupulus H17SL-4 gene for signal recognition particle," NCBI Entrez Accession No. AJ236703, 03-MAR-2003 (downloaded from www.ncbi.nih.gov on 11/10/2006).
	"Arabidopsis thaliana U6-1 snRNA gene," NCBI Entrez Accession No. X52527, 01-OCT-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).
	"Arabidopsis thaliana U6-26 snRNA gene," NCBI Entrez Accession No. X52528, 01-OCT-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).
	"Arabidopsis thaliana U6-29 snRNA gene," NCBI Entrez Accession No. X52529, 01-OCT-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).
	"Zea mays of USE gene encoding U3snRNA," NCBI Entrez Accession No. Z29641, 19-JAN-1995 (downloaded from www.ncbi.nih.gov on 03/02/2003).
	"S. tuberosum gene for U6 small nuclear RNA," NCBI Entrez Accession No. Z17301, 11-MAY-1995 (downloaded from www.ncbi.nih.gov on 03/02/2003).
	"Tomato U5 small nuclear RNA gene," NCBI Entrez Accession No. X51447, 13-MAR-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).

Examiner Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**SECOND
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(use as many sheets as necessary)

Sheet 2 of 2

Application Number	10/780,638
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First Named Inventor	Ming Bo Wang et al.
Examiner Name	Russell Kallis
Attorney Docket No.	1021565-000156

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	"A. thaliana U3C snRNA gene," NCBI Entrez Accession No. X52630, 27-SEP-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).
	"A. thaliana gene for U3B small nuclear RNA (snRNA)," NCBI Entrez Accession No. X52629, 27-SEP-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).

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